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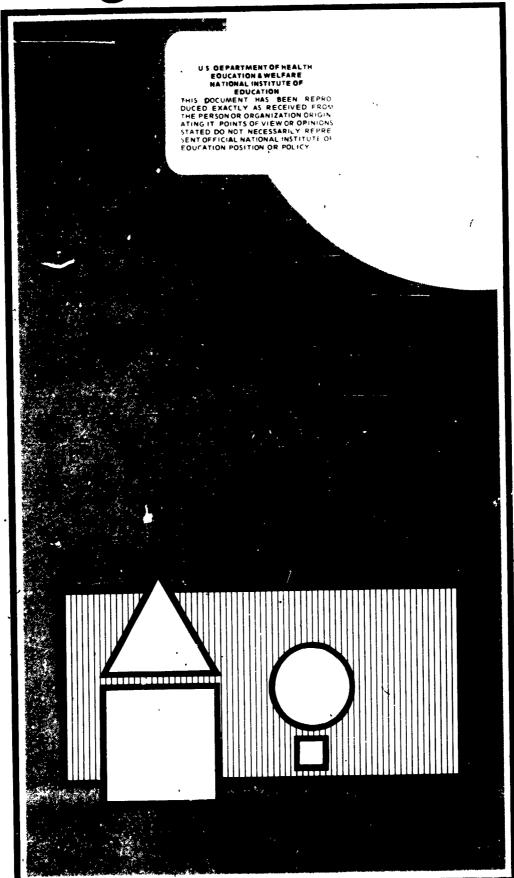
Legislation

ABSTRACT

This handbook was assembled by the Oregon State Department of Education to assist local school districts in planning and administering kindergarten programs. It consists of a brief introduction and two major sections. Section 1 discusses the legal framework for implementation of kindergartens; section 2 contains suggestions and resources for planning kindergarten programs. Section 2 is not a complete curriculum design, but rather is intended to stimulate districts to develop their own programs, responsive to their particular needs. (Author/JG)

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Kindergarten Handbook



EA 007 339

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PREFACE

In July 1973, the Oregon State Legislature passed House Bill 2031, authorizing local school boards to implement public school kindergartens under standards established by the State Department of Education. This action reflects the increasing support for the expansion of early childhood education in Oregon.

Many types of school programs for children under the age of six arc currently being tried in various settings. Head Start programs, day care centers, and in private nurseries and kindergartens. Students entering the first grade after attending these programs consistently show a distinct advantage over other children in their social adjustment and their readiness to learn. The development of public kindergartens may be instrumental in reducing the number of primary school children with special learning difficulties.

This handbook has been assembled by the State Department of Education staff to assist local school districts in planning and administering kindergarten programs. It includes a section detailing the legal framework for implementation of kindergartens as well as suggestions and resources for kindergarten program planning.

The State Department of Education will continue to support the development of early childhood education by supplying districts with supportive materials relating to the administration, planning and evaluation of kindergarten programs Consultant services in early childhood education are also available to local school districts from the Department

Jesse Fasold Superintendent of Public Instruction



INTRODUCTION

Research has clearly demonstrated that (1) the development of intellectual ability is greatly affected by what happens to children before they reach first grade, and (2) by the age of six most children have already developed a considerable part of the intellectual ability they will possess as adults

In Oregon, interest is increasing in the education of children below six Kindergarten has been established as part of public education by law Many parents seek private nursery schools and kindergartens for their children in areas where there are no public school programs, others work endlessly to organize cooperative nursery schools so that their children may have group experiences

The increased public recognition of the value of such projects as Head Start is another indication of growing interest in kindergartens. Some parents not living in disadvantaged areas are suggesting that public education should not be confined to any one economic group, but rather be available to all children whose parents seek it. Educators, as well as those concerned with the social, political, and economic welfare of our nation, are recognizing the need for carefully planned educational programs for young children. The establishment of hundreds of new day care centers, nursery schools, and prekindergarten programs increases the importance of well-planned programs which will provide continuity and consistent development at every level.

Guidelines are needed for establishing, analyzing, examining, and evaluating early childhood programs, they should include well-defined objectives and procedures, responsiveness to the children who are served, and significant involvement of parents

In planning curriculum programs for kindergartens, we recommend a preventive, diagnostic-prescriptive approach based on an assessment plan as a way to achieve the best educational opportunity for each learner. Assessment should include both health and academic surveys of a child's strengths and limitations.

While the curriculum section of this handbook is not a complete design, it is hoped that these resources will stimulate districts to develop their own creative programs, responsive to their particular needs

The handbook is intended as a resource tool. The staff of the Oregon Department of Education will be happy to offer consultant services in early childhood education at the request of local districts. Contact Jean Spaulding, 378-3602



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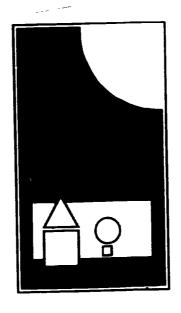


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SECTION 1



Administrative Steps for Starting a Public Kindergarten



ADMINISTRATIVE STEPS FOR STARTING A PUBLIC KINDERGARTEN

Before a local school district takes steps to start a kindergarten program, the basic reason for establishing the program should be stated, because this establishes the basic philosophy for program development

Kindergartens provide a unique opportunity to

- Provide an instructional program meeting the wide range of social and intellectual differences in children when they come to school
- Develop each child's learning potential
- Create an atmosphere in which each child can experience success
- Provide opportunities for each child to think creatively and express ideas in creative ways
- Arouse natural curiosity and guide the thinking process
- Provide satisfying experiences in group living
- Increase the thinking process of children in a wide area of intellectual pursuits

Programs that are designed to provide these opportunities will include

- Educational experiences for children at all levels of physical and intellectual development
- Work and play experiences that foster the attitudes and abilities necessary for learning

Once a local school district is committed to starting a , kindergarten program, the following steps will provide for implementation of the kindergarten

1 AUTHORIZE A KINDERGARTEN PROGRAM THROUGH THE LOCAL DISTRICT SCHOOL BOARD.

The legal authority for establishing and maintaining kindergartens is contained in House Bill 2031, authorizing local district school boards of any size to implement a public school kindergarten. No public vote is needed to include kindergartens in the regular school program, and the operating budget for the kindergarten will be included in the regular district budget. The school board authorizes kindergartens by establishing them as the entry level to school in an official board action recorded in the minutes.

2 LOCATE THE EXPECTED NUMBER OF KINDER-GARTEN PUPILS AND ASSESS THEIR INDIVID-UAL NEEDS.

Eligibility House Bill 2031 defines the kindergarten student as a child in the year before attendance in first grade. The kindergarten should be open to all children of the proper age that reside in the district. Kindergarten attendance is not mandated by the state, the Oregon Compulsory Attendance Law (ORS 339-010) requires children to be in school by the age of seven. Local school districts may make their own regulations regarding school entrance, they may stipulate that all children enter school through kindergarten for assessment and placement, or they may assign children to the kindergarten if they are five years old by November 15 (basing age on the law that specifies children should be six years old by November 15 to

enter the first grade)

Assessment of special needs: Any kindergarten classroom will include children with a wide range of mental and
physical abilities, personalities, and behavior patterns. A
tew children will be readily identifiable because of their
exceptional abilities, or because of physical limitations in
sight, hearing or other areas, and differences in emotional
and psychological make-up. Program administrators must
decide whether they can meet the needs of exceptional
and/or handicapped children without short-changing the
rest of the children in the group.

Because the severity of learning difficulties is not always recognized, any handicapped child should be evaluated by the director of special education to determine the child's best placement. The director of special education should be able to identify new and interesting programs for handicapped children and local resources to implement them. Special programs can provide opportunities for these students to experience success and expose them to special activities and/or equipment.

The needs of exceptional children can very often be met in the regular classroom, provided the number of exceptional children in a single classroom is limited. An exceptional child can usually profit from kindergarten programs without requiring an excessive amount of teacher time or detracting from others in the group. Also, the presence of an exceptional child offers certain rewards and stimulation for other children, developing the sensitivity to individual differences that is an important outcome of anyone's education

Additional information and assistance with children that have special education needs can be obtained through the Division of Special Education Services, State Department of Education (Salem, 378-3598)

3. ASSESS THE NEED FOR CLASSROOM SPACE AND FACILITIES AND LOCATE THE APPROPRIATE RESOURCES.

Minimum standards: Because kindergartens are included as part of the regular elementary school program, the minimum standards for elementary and secondary schools will apply to kindergarten facilities

Classroom: A normally bright, sunny classroom with at least nine hundred square feet of space for each 24 children meets the minimum standards. The shape of the foom is not important, provided that a large unobstructed space is available. Teachers should be able to survey the entire room at once, a consideration affecting the use of room dividers.

Facilities: Running water, sinks and drinking fountains should be part of every classroom. Easily supervised toilet facilities should be located very near the classroom.

Playground The playground area should provide at least 75 square feet of space for each child. Although playground space may be shared with other primary grades, kindergarten children should have access to the area by themselves for part of the day Playground fences may be required because of nearby traffic hazards

Transportation: Kindergarten children may be transported on public school buses, with reimbursement based on approved cost of transportation. Districts may also

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arrange for parents to transport kindergaiten children to and from school as part of the district's basic transportation plan and claim reimbursement. I loy d. Thomas, Director of Management Information Services at the State Department of Education, may be contacted for further details (Salem 378-3611).

4 DEVELOP A BUDGET FOR SUBMISSION TO THE YOTERS

Costs for establishing and maintaining a kindergarter vary so much that it is difficult to generalize about actual figures. Cost estimates should include such items as capital outlay, transportation, saliries, fixed costs, instructional materials, and the program's share of basic costs.

Salaries for teachers and support staff are the biggest item in kindergarten budgets that have been submitted by local districts. The cost of support personnel such as a district nurse, a specialist in extreme learning problems, a speech clinician, social workers and guidance specialists will add to basic program costs. This support staff is, however of great value to a kindergarten program.

During the last three years, districts implementing kindergarten programs have estimated initial costs of setting up facilities at \$1.700 to \$2,000 per classroom. Per pupil costs have been estimated by districts for the spring of 1974, ranging from \$350 to \$600.

5 DEVELOP JOB DESCRIPTIONS AND EMPLOY A KINDERGARTEN STAFF

The minimum standards for elementary education require one teacher for every 25 children in the primary grades. A kindergarten class with a certified teacher and an aide for every 20 children provides a better ratio for group activities. Larger and smaller groups may be organized for specific activities. Sometimes a teacher or support staff may wish to work with one or two children needing special assistance or training.

Teacher qualifications Kindergarten teachers must hold a current valid elementary school certificate. A "teacher" is defined as any certified employe with direct responsibility for instruction who is paid from public tunds (ORS 342-120). It is also advisable to seek teachers who have completed special training in early childhood education and development meeting the preparation standards suggested by professional organizations. Many graduates of elementary education training an Oregon institutions are now qualified in early childhood education. Teachers should have experience in working with young children under supervision, either in preservice or in-service programs.

Kindergarten teachers should demonstrate a thorough knowledge of the growth and development of young children and the application of educational practices and theories for children under six years old. Teachers with personal qualities of empathy warmth and emotional maturity will contribute to the success of the programs.

Teacher aides Teacher ride may also be employed in kindergarten classrooms. A teacher aide is defined is a noncertified employe whose assignment is limited to assisting a certified teacher.

6 PLAN AN INSTRUCTIONAL PROGRAM FOR THE KINDERGARTEN

House Bill 2031 specifies that kindergartens are considered half-day programs for the purpose of basic school support reimbursement. A half day is defined as 2½ to 3 hours per day (ORS 339 410)

Records and reports. Records are valuable and necessary. The kindergarten staff should work together to determine the form and type of records that will be most useful to their specific program. Daily records, including detailed accounts of an individual child's activities, can be very valuable if taken over a period of time or at specified intervals throughout the year.

Special consideration must be given to the type of records used in reporting to parents. These records should reflect the philosophy of the district towards kindergarten programs and provide information on the child's development that will assist parents and teachers in working together. Written records, as well as conference procedures, are invaluable in reporting to parents about kindergarten programs.

Assessment. Two types of assessment should be considered as part of the kindergarten program (1) assessment of the individual characteristics of each child, and (2) assessment of each child's learning environment, including such factors as the people, space, materials, equipment and time which will provide the best possible learning experiences for an individual child. Assessment of each child is the classroom feacher's primary responsibility—vith assistance from counselors, nurses, speech clinicians, psychologists or other members of the support staff.

Assessment should take place early in the kindergarten year and at regular intervals throughout the year for two reasons (1) individual program design and (2) for making general curriculum decisions about the content, scope and sequence of experiences, as well as tempo or pacing in the classroom. Larly assessment provides for prompt reterral of children with special problems, talents or gifts to professional services within the school and elsewhere in the community.

Diagnosis and prescription. Assessment of individual characteristics and the optimum learning environment for each child will aid in the diagnosis of the strengths and limitations of each learner. This analysis of each child's learning potential leads to the development of a prescriptive learning program, designed specifically for the individual child.

Planning curriculum through assessment, diagnosis and prescription will result in optimum learning opportunities for each child. Specific suggestions for kindergarten curriculum in the major subject areas are contained in the second halt of this report.

Planning steps. Suggested steps for developing a curriculum program for kindergarten includes (1) establishing program goals and priorities (2) developing instructional guidelines. (3) involving primary teachers from kindergarten. List and second grade levels in the selection of activities and materials, (4) incorporating curriculum plans with a diagnostic-prescriptive analysis of the individual prospective students, and (5) providing for articulation

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between kindergarten and the primary grades. Afficulation should be carefully planned to provide a continuum of growth throughout the early childhood education years.

7 PLAN STAFF IN SERVICE FOR KINDERGARTEN TEACHERS AND OTHER EMPLOYES AS NEEDED

Teachers of kindergarten and the primary grades need opportunities to plan together to provide for a continuum of growth throughout the early childhood education years (kindergarten through the third grade). Feachers need to know, through first-hand experience, what is happening at each level of early childhood education. Inservice programs for all early childhood education teachers will help the staff to respond to the different rates of development in each child and allow them to progress along a continuum that is unfettered by labels segregating kindergarten activities from the other levels.

8 PURCHASE INSTRUCTIONAL MATERIALS AND EQUIPMENT WHEN AUTHORIZED BY THE BUDGET DIRECTOR

Suggested equipment and materials. Keeping in mind the ways in which children learn, selection of materials and equipment should be made on the basis of some of the following considerations.

- Contribution to miplementation of goals
- Ability to suggest construction projects and inspire creative expression
- Ability to arouse curiosity and interest
- Safety, stability, and freedom from sharp corners and splintering;
- Provision for physical activity and manipulation
- "Ability to suggest dramatic play and communication of ideas
- Suitability of materials and equipment for group and individual use

The use of appropriate equipment and materials, when wisely chosen by teachers and administrators, can foster development in the important educational objectives of resourcefulness creativity responsibility, independence and social and motor skills, A list of suggestions for basic kindergarten materials and equipment is available from Jean Spaulding, Primary I ducation Specialist for the State Department of Education (Salem, 378-3602)

9 PLAN A SPRING REGISTRATION PROCEDURE TO PROVIDE ORIENTATION FOR PROSPECTIVE STU-DENTS AND THEIR PARENTS

Plans for spring registration should include notification of parents, information and orientation for parents and children, schedules for registration and transportation and provisions for a health check-up. Plans should also be made for registration of children who are eligible, but cannot preregister.

Enrollment An enrollment record generally includes the child's full name, parents' names, addresses and phone numbers, and the family physician's name, address and phone number for notification in an emergency. Other

information useful to the school such as the bus number may, of wourse, be added

Immunization and health check-up. House Bill. 2042 requires that children between 5 and 14 years of age be immunized for specified communicable diseases before they enroll in any public, private or parochial school. The State Health Division specifies the immunization required, and the law states that children who tail to comply will be excluded from the school Ixceptions are granted in the tollowing cases, immunization may endanger the health of a child in certain cases, parents or guardians may certify that immunization is contrary to their religious beliefs. parents may sign an agreement to arrange privately for immunization within 30 days. The Oregon Division of Health Services for the School Age Child also recommends that a physical examination be obtained by every pupil prior to initial entrance into school. Information is available from the county health department

Orientation program The principal should support the teacher in developing an ongoing program that involves both the parents and children Teachers may visit parents in the home or invite them to school during the week prior to the opening of kindergarten classes. Teachers can encourage parents to share information about their children's early life.

Clearly written records should be developed and available to the public that contain school policies towards entrance requirements and registration procedures, requirements for health records and birth certificates, special fees, transportation requirements, and school schedules. Also, groundwork should be laid towards building pertinent information in the child's confidential file.

10 PREPARE THE KINDERGARTIN FOR THE OPENING OF SCHOOL.

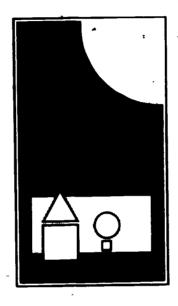
The final preparation steps include making necessary adjustments in classroom facilities, plaining shortened school days and staggered emollment during the first week of school, and developing an identification plan for children and their school buses.

II MAKE PLANS TO PROVIDE ONGOING COMMUNI-CATION BETWEEN PARENTS AND TEACHERS ABOUT KINDERGARTEN CHILDREN

Parents and teachers can share their knowledge of the child and his development through scheduled room meetings parent visits to the classroom, individual parent conferences, and telephone conversations with parents who cannot come to school Children can be encouraged to take materials home to share with their parents newsletters to parents can also report on the school activities. Leachers can also establish a "parent center" in the classroom, where parents may find reading and resource materials on early childhood education, enjoy a cup of coffee and hold informal conversations with members of the school staff.



SECTION 2



Resources for Planning Kindergarten Curriculum



RESOURCES FOR PLANNING KINDERGARTLN CURRICULUM

I GENERAL SUGGESTIONS FOR KINDLERGARTEN PROGRAMS

Plans for curricular activities. Larly childhood curriculum should include activities that are appropriate for young children and that will lay the foundation for later instruction. For example general activities that will contribute to learning in science are observing the characteristics of objects and bying things in the environment classifying and categorizing distinctive features of these observations, and describing the relationship between things that are observed. These activities begin to build the concepts needed by young children to understand scientific interpretations of their world.

Solving practical, everyday problems may help to develop basic concepts for later learning in all academic disciplines. It teachers are aware of the basic understandings that can be appropriately developed with young children they will be in a better position to select and guide their activities.

Many different opportunities to interact with a rich and challenging environment will provide children with a stable orientation towards new learning experiences. Animals, plants rocks and all such realia must be present in the programs and used effectively. Children need opportunities to interact with people, to take field trips that will broaden their experience, and to have visual media bring more of the world to them.

A curriculum designed to toster children's ability to think and conceptualize should be balanced in content. Activities in reading readiness or other basic skill areas should not be over-eniphasized to the exclusion of root experiences that foster understanding of science mathematics, music, language and the arts.

Goals for kindergarten programs. A major goal of kindergarten programs is to develop each child's individual potential within the framework of society. The kindergarten program should also promote readiness for more formal instruction, supplementing the home environment and assisting each child in making agradual and enjoyable adjustment to school.

A good kindergarten program should help children to

- Develop an interest in, and experience the joy of *learning
- 1 stablish satisfying relationships with children and adults.
- Extend their understanding of social interaction
- Further their physical development
- Maintain and develop optin um mental health
- Know and enjoy their cu tural heritage through literature, music the performing and fine arts
- Grow in understanding of spatial and quantitative relationships
- Develop an understanding of the natural environment
- Develop a capacity for aestnetic expression

2 LANGUAGEARIS

A kindergarten teacher must be responsible or helping children achieve proficiency in using the language. Insteading speaking, writing, and reading readiness should be deveroped at each child cown level. A language arts program must also be purposeful, and relevant to learning.

Rich and varied intake experience, will provide greater satisfaction for the child in his outgo experiences. Intake experiences in kindergarten are comprised of activities such as scientific demonstrations, trips, pictures and books. All kinds of intake experience may be useful in some way. Outgo experiences allow children to communicate their impressions of the world, through play and other activities. Outgo experiences embrace all forms of communication both verbal (fanguage) and nonverbal (painting, sculpture music, dance).

The kindergarten taicher constantly trives to guide children so that they have opportunities to

- Acquire ideas knowledge and opinions to communicate
- Present ideas in a sequential manner
- Extend their command of words and understanding of related concepts allowing them to communicate their thoughts satisfactorily.
- Improve and extend their use of language emph is sizing patterns that are gramm itselfly correct
- Clarify their thoughts through oral expression speaking in a pleasant voice with sufficient volume to reach others
- Enumerate distinctly and pronounce words accurately
- Acquire a feeling of security in sharing experiences with others in the group
- Listen attentively and follow direction
- Appreciate the significance of both spoken and written words

3 READING READINESS

Maturity and reading. While the kindergarten teacher cannot be expected to endow children with increased mental capacity, the teacher can indidoes help them to use the intellectual capacity they do possess in advantageous ways. The teacher can provide opportunities to reason solve problems make decisions follow directions in sequence, and concentrate on one activity for increasing lengths of time. Children need to do all of these things in order to successfully pursue the first grade reading skills.

Experiential background and reading. The richness of children's experiential background providing them with information and concepts is closely related to their ability to think. Many studies show a tayorable relationship between background experience and reading ability. The kindergarten contributes most generously to experiential growth through activities such as nature excursions to see bilds squiriels trees ice trost dew spider webs ant hills etc. industrial excursions to visit a creamery a bakery, a tire station a ridroad varid, etc. experiences with raw materials such as making jelly butter, gingerbread etc.



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houses stores churches schools or making a park with trees, flowers a lake boats a 200 etc.

Emotional and social maturity and reading. Numerous studies have revealed a high relationshap netween reading uccess and emotional maturity. What happens in the kindergarten that promotes emotional and social growth? The teacher is alert to the symptoms of timidity aggression fears, and the need for success and approval. Each child needs help to develop in terms of his or her own needs. In group work, the children learn that their own interests are best fulfilled through cooperative effort towards common goals and the sharing of interests and ideas. These emotional and social experiences provide substantial help when the child undertakes the formal reading process.

Larguage development and reading Research clearly indicates that the ability to listen to a story and supply a reasonable ending is one of the best predictors of success in reading. Plentiful evidence shows that development in the other language arts is closely fied to reading development Consequently activities that promote vocabulary enrichment, correct English usage, fluent speaking, and good listening in kindergarten will contribute to reading development. The kindergarten teacher can do many things to encourage language development, including providing a friendly, rich, and interesting environment that encourages children to talk, giving them firsthand experiences to talk about, inviting them to relate personal experiences, retell stories, and make up their own stories and poems. In doing all these things, the teacher helps each child develop the language facility needed for successful learning in reading *

Informal contacts with reading. The teacher can plan to emphasize written language by (1) placing memorandums on the chalkboard or writing orders for school snacks, names of committees and their members, simple rules, and simple directions for some activity like making applesauce (pare, wash, cook, sweeten), and (2) placing surprise sentences on the bulletin board each morning, such as "Susan will bring her pet liabbit tomorrow." Let the children try to guess what the surprise is, then read it to them

The teacher can call attention to printed material on walks or excursions the names on packages in store windows, signs on store buildings, names of streets, names on trucks, street cars and buses, danger signs, and so on. The te, ther should frequently let children see their own words flow into printed symbols as she writes them on chalkboard or tagboard. Every opportunity should be used to write as the children watch, write notices, plans, suggestions, and directions which they have composed. While the children should not be required to read the words, phrases, or sentences, they will have the valuable experience of seeing meanings which grow out of their own experiences.

Reading skills and attitudes for development in kindergarten. An outline of some of the reading skills developed

*CHILD: Available at \$4 persopy from Copy Print Centers, 1206 SW Jefferson, Portland, Oregon 97201 and Northwest Regional Lab, 710 SW 2nd Avenue Portland, Oregon 97204, is a rich resource of language activities.

in kindergarten is included for those teachers who want to provide a reading readiness program

Getting ideas from pictures

- Telling about a picture
 - Increasing language facility
 - Recognizing objects and actions
 - Making interpretations beyond what is seen
- Arranging pictures
 - Creating awareness of sequence in action and time
 - Developing left-to-right mechanics of reading
 - Lelling stories from picture sequences

Getting ideas from stories

- Developing awarenes ers simple plot, and setting ers
- Differentiating bet at is real and what is imaginary
- Retelling stories with sequence and detail
- Enjoying both prose and thyme a
- Observing that pictures relate to story content

Handling books

- Learning how to hold a book and turn the pages
- Developing awareness of left-to-right sequence and top to-bottom page procedures
- Relating pictures to what is known about the story
- Respecting books and appreciating their beautyand diversity

Auditory and visual perception

- Listening for and identifying common sounds heard in the environment (birds, motors, etc.)
- Perceiving and locating sounds in written language
- Listening for likenesses and differences in sound at the beginning or end of a word (cat) can, cat but, etc.)
- Singing many meaningful songs.
- Noting likenesses and differences in children's names
- Seeing and feeling likenesses and differences in forms

Developing good, speech

- Retelling stories with good expression
- Reciting rhymes with good expression and proper pacing
- Recognizing the importance of appropriate volume, pleasant tone, and choice of words in communicating with a group

Developing a wholesome attitude towards reading

 Anticipating learning to read because reading has been observed as a rewarding and pleasurable experience



- Taking advantage of the "listening posts" and other opportunities to hear stories and poems read
- Experiencing dramatic play as a natural way of using language, enacting stories, and taking the role of sonjeone else (as often occurs in reading stories)

* WRITING READINESS

Kindergarten children can be given many opportunities to experiment with and pursue their awakening inverest in writing Foundation expresses for writing are provided by many large muscle timbing, balancing, building with large blocks, an petivities. These experiences promote gains in the rarge muscle coordination involved in writing. While all children should be exposed to the writing readiness program, some children will actually pursue writing activities. Beginning writing must be supervised to avoid establishing incorrect habits.

Experiences that provide opportunities for the development of dexterny and coordination are listed below

- Imger painting, brush painting
- drawing on paper and chalkboard
- operating the clips and implements that hold paper on the easel
- washing paintbrushes and other equipment
- pasting, cutting, and tearing paper
- modeling with elay and other media
- using hammer and nails and other woodwork tools
- using a paper punch
- facing shoes, tying knots and bows on shoes and work aprons?
- buttoning and unbottoning, zipping and unzipping, snapping and unsnapping, hooking and a unbooking fastenings on their own clothes, doll clothes or costume clothes
- picking up and sorting out such things as seeds, spilled pins, thumbtacks or other small items
- picking out tunes on the piano
- operating the record player
- handling science equipment and pets
- manipulating pegs, form insets, puzzles and beads
- manipulating such play materials as small interlocking and snap blocks
- turning the pages of a book
- handing out eards for matching games
- posting pictures with thumbtacks or pins
- arranging figures on felt or magnetic boards
- handling, manipulating and even spelling out words with molded form letters
- constructing with unit and hollow blocks

Some experiences that will help children realize that writing is a means of identification are

- putting signs on construction projects
- recognizing labels on equipment
- having names on work.
- seeing captions on bulletin boards

The following experiences will help children with the

techniques of manuscript writing

- learning left-to-right
 - observing the teacher demonstrate left-to—ght movement in using books and charts
 - viewing a sequence of pictures from leftto-right
- observing teacher write correctly.
 - using dapitals and small letters properly
 - demonstrating good letter formation
 - placing letter≤ on a horizontal line
- · drawing readiness figures
- learning to make-circles
- learning to make straight lines from top to bottom and from left-to-right
- learning to write own name on the chalkboard and on paper (if ready)
- learning to write the manuscript letters correctly (it ready)

The following techniques apply to writing activities for right- and left-handed children

- Right-handed child. The right-handed child should have the paper parallel to the edge of the desk and slightly to the right of the body. The child should sit well back in the desk with elbows just off the edge. The crayon or peneil should be held about an inch from the writing point between the thumb and second finger, with the index-finger resting lightly on top. The child should be taught to hold the erayon or pencil lightly between the thumb and second tinger first, and then to drop the first finger on top of the crayon.
- Left-handed child. The left-handed child should place the paper parallel to the edge of the desk, holding the pencil in the left hand and following the same procedure as the right-handed child.

SOCIAL STUDIES

The growth of social concepts in the young child hegins with self-understanding as an individual. The young child's concept of membership in the large society is gradually developed by experiences that create familiarity with the neighborhood and adult roles in the community. The rudiments of history, geography, economies, and the other social sciences are also rooted in these experiences.

Objectives to consider in the selection of social studies activities include

- Helping the child relate school experiences to home and community situations
- Developing understanding of the importance of school in the child's life
- Increasing the child's awareness of the need to follow rules and regulations developed for the benefit of a group
- Developing the child's self-respect and an understanding of roles of the individual in a group
- Involving children as eager participants in school



PRE-WRITING SKILLS CHECK SHEET I

١	Outline trace a simple picture of an object with pencil of cravon staying on the line approximately 3/4 of the way	,,,,,
B	Color simple picture or an object with 1 or 2 large spaces	
	Let Color, moving cray on in one direction	•
	2 Color just to the line and not over it	
(,	Cut a simple object out on the line precisely	
D	Paste a simple object on another sheet of paper using	ν
	1 Pasting skills	
	Even square or some type of planned spacing	
ŀ	Write NAME (first)	
	Trace first name from model	
	2 Copy first name from model directly below it on blackboard	
	8 Write name without copy on blackboard	
	4 Tracertaine on unlined paper	
,	5 Copy name from model directly below on unlined paper	
,	6 Write name without copy on unlined paper	
- I	Write NAME (last)	•
	1 Trace last name from model	
	2 Copy last name from model directly below it on blackboard	
	3 Write name on blackboard without copy	0
	4 Copy name from model directly below on unlined paper	· · · · ·
	5 Write name without copy on unlined paper	
(• WRITE first and last name sequentially	
	1 · Correct form	
	2 Correct size of letters	
	3 Correct spacing between letters and words	
-	Instructional Note. Not every child will need all these steps, but each child should be	
	tested on each skill using the steps deemed necessary	Date
	Kan Charoduced MaMastered Sumber Code	17411



- activities and helping them to apprecrite the roles of school personnel
- Helping the child recognize the value of our resources and our responsibilities to conserve them
- Arousing the child's curiosity about people, places and things both near and far away
- Building an appreciation of the compatability of cultural differences
- Inspiring in children a love of country and pride in being an American
- Learning about social organization and developing a sense of participation and responsibility
- Helping the child realize the interdependence of family members, economically and socially
- Sharpening the child's observation of changes in seasons, families, schools and communities
- Helping the child develop functional skills related to gathering and using information in the social sciences, e.g., listening intently and observing accurately, developing simple map and globe skills, classifying, drawing inferences and making simple generalizations

6 ENVIRONMENTAL EDUCATION

"for the parent (or teacher) seeking to guide him, it is not half so important to know as it is to teel. It facts are the seeds that later produce knowledge and wisdom, then the emotions and the impressions of the senses are the fertile soil in which the seeds must grow. The years of early childhood are the time to prepare the soil. Once the emotions have been aroused a sense of the beautiful, the excitement of the new and the unknown, a feeling of sympathy, pity, admiration, or love then we wish for knowledge about the object of our emotional response. Once found, it has lasting meaning. It is more important to pave the way for the child to want to know than to put him on a diet of facts he is not ready to assimilate."

Rachel Carson

For the kindergarten reacher and her pupils, environmental education takes place wherever they find themselves in the classroom, playground and cafetorium, on the way to and from school on walking trips, field trips and on the bus. Environmental education is not a distinct and separate discipline or study area. It permeates the entire school day and all of life.

Five-year-olds have senses and feelings that are clear, tresh, and full of wonder. The teacher can build on such beautiful attributes by providing learning activities that emphasize the relationships between people and their many environments, the power of society to control environment and the responsibility of preserving and protecting it

The many activities provided tive-year-olds at school communication, skill development, art, music, physical education, use of the senses and number relationships, can easily incorporate the environment as a vehicle for simultaneously learning basic skills and about the environment

A broad program goal for environmental education is

to develop students who will recognize problems which affect the interdependent life systems in the environment. Some specific competencies for kindergarten pupils to develop ase the ability to

- Alse their five senses in developing an awareness of their environment
- Discuss what they see, feel, hear, smell, and taste in the world around them
- Draw pictures of things they observe
- Tell about how things in the environment affect their feelings
- Learn songs about their natural and man-made world
- Note seasonal changes in nature and how they affect living things
- Observe polluted, bhghted and unsightly areas and discuss possible actions for prevention and correction
- Assist in maintaining a good environment in their classroom, school and playground

An outline of suggested learning activities that relate to the environment appears below

Exploring

- What can be seen out the window? Are they big, small? What colors can you see? Name things that can be seen antk explain how they are alike and different
- Lour the schoolgrounds and look for specific things grass growing, in sidewalk cracks, insects, birds, flowers
- Fouch and describe objects tree bark, stones, glass, cloth, seeds, etc. Put objects in a sack, feel them without looking, and try to identify them.
- Listen for one minute and describe what you heard. Were sounds man-made or made by nature?
 Were some more pleasant than others?
- Look for signs of wear or erosion around the school Discuss how long it took for these changes to occur.
- Notice seasonal changes in plants and trees near the school
- Identify birds near the school in spring and winter What happens to some in the winter?
- Take walking trips in different parts of the community. Are some areas more attractive, noisier, or more crowded? Why?
- Observe trees and look for mistletoe and putfball Look for insect and bird life in trees. Is there a relationship between them?
- Look for traces of life around the school or on a walking trip. What organism left the trace?

Experimenting

 Plant and grow plants What happens to them over a period of time (life cycle)? Do other living things have life cycles? Do non-living things go through



- cycles (water siyles)!
- Make a gaussical instrument out of something discarded or found in nature
- Make up dances to express how you feel about things in nature (the wind a flower, a bird a stream)
- Care for annuals at school (observe all safety and health requirements). What must you provide them?

Visiting

- The local water system
- The parks
- Waste disposal facilities
- Transportation systems
- Major industries
- Weather station
- Newspaper, radio and TV stations
- Electrical plants or substations
- Nearby rivers, lakes, forests, descrit areas and the seashore
- Blighted urban areas
- Froded areas
- Larms
- Nurseries and hatcheries

Making things

- Scrapbooks
- Posters
- Puppers
- Paper aprons, placemats and tablecloths from mater. I that would have been thrown away.

7 HEALTH EDUCATION

Health education is an integral part of the kindergarten program. Through health education children have an opportunity to acquire information skills and attitudes that will help them lead a moningful life. Health services should be supplied in accordance with children's needs. Some needs are determined by the child's stage of growth others are related to factors such as illness accidents or organic disorders. The physical growth of five-year-olds demands activity and exercise, which, in turn, creates a demand for rest. Consequently, landergarten programs should be planed with alternating periods of vigorous and quiet activity. The main objectives of a kindergarten health program' should be to. (1) help maintain or improve the health of each child and (2) help all children establish good nealth attitudes and habits.

Safety Teachers should watch for and eliminate potential safety hazards arranging classroom equipment with safety in mind. Because fatigue and over-excitement can often cin e carelessness, well-balanced programs of quiet and vigorous activities should be planned. Children should learn how to use apparatus equipment and materials properly.

Cleanliness Not all children come to school with the sime standards for cleanliness. In extreme cases of negligence, teachers should artempt to find out the reasons in

the child's home life for poor personal hygiene. Then findings may indicate ways in which assistance may be given. When children are dressed in washable clothing teachers need not worry excessively about cleanliness, a recommendation to dress children in washable clothes may be made to parents during orientation. Children are tree to work and play creatively when they know it is all light to get dfity. The important habits of washing before contacting food, after handling animals, and after toileting are not easily acquired, they should be encouraged in the classroom by teachers.

Frequently, it would be simpler for teachers to clean up after the children than to have them do then own cleaning. The promotion of efficient work habits, however, requires that children be taught to clean up after themselves before they begin new activities. Teachers should not expect perfection, but keep realistic goals in mind.

Posture Girls and boys develop muscles which promote good posture as they climb on playground apparatus, relax, sit comfortably for short periods of time, express ideas and emotions through rhythms, wear well-fitted elothing, and feel successful and socially accepted. Proper nutrition, exercise and rest contribute to children's feelings of well-being. Teachers should recongize that the normal stance of young children differs from adults and encourage individuals to sit in chairs suited to their size.

Nutrition: Much education concerning nutrition is centered around the few minutes designated as "snack" time. Consequently, only good nutritional toods and beverages should be served Celery strips, carrot strips, whole wheat crackers, cheese, apples, tomatoes and oranges are better than cookies or crackers I ruit or vegetable juice is sometimes a welcome change from milk "Snack" time can also be used to develop good manners, social relationships and personal hygiene habits

Mental health. The kindergaiten year is crucial for development of children's self-concept and their ability to relate well to other people. The following activities will promote sound mental health among kindergaiten children.

- Learn some ways of meeting psychological needs
- Help others and receive help.
- Learn to show appreciation
- Learn how to release emotional tensions
- Play it one and with various numbers of children.
- I mov funny situations
- Drainatize home experiences
- Return borrowed articles
- Make decisions commensurate with their level of development

Rest Children can learn to relax and rest informally for short periods of time, however, the scheduling of formal rest periods must be determined by the local situation. In some instances, a period of calm activity provides sufficient test. Some children may need a nap while others play or work quietly. Decisions are made according to such factors as the length of the school day, the distance the children travel to and from school, and the quality of their outdoor activity.



8 PHYSICAL EDUCATION

Young children like to play Play, after all is the way of work for young children. Lifting large blocks onto a high platform to make a bus is hard work, but it is also play

The five-year-old grows in physical ability through play. Young bodies are constantly active because muscles and coordination are developing. Climbing, reaching and grasping as children use playground equipment or apparatus helps them gain physical strength and muscular control. The child pulls himself up to the bar with a tirm grip of both hands and, by observation soon learns how to move across the bar. Play on the apparatus is often a series of experiments, observations and initiations.

Playground safety. When equipment or apparatus of any kind is used, the teacher must be able to recognize safe play procedures. Since the young child is not conscious of physical safety, the teacher's responsibility is great. Incouraging good coordination in pulling, lifting, pushing, hanging, dropping, and stooping will help to minimize inpuries.

Instruction in safe and correct use of playground equipment will develop good habits at the outset, rather than require children to change bad habits later. The teacher can watch children as they play and show them the correct handgrip on the horizontal bar, how to sit in the swing or rocker-ride, and encourage them to take turns. It is important to give kindergarten children basic understanding of the reasons for waiting turns and using apparatus correctly, good play habits will be valuable at a time when other pressures may crowd out learnings which are not yet habits.

Play supervision. Guided play is the young child's physical education. Each kindergarten child should be observed and guided when playing alone or with small groups in various activities. Teachers and aides can help individuals with fundamental skills when they need it and are ready discourage participation in unsafe activities, and reducet play activities it a child becomes over-stimulated. Leachers should allow as much freedom and free play as possible without children hurting each other or engaging in other unsafe practices. Imitative play and thythmic expression also play important roles in play activities and physical development.

Organized games. There is a lack of agreement on the place of organized games in the kindergarten program. Some kindergartens almost rule out organized games while others have a daily game period. Since there is not adequate research to support either procedure, perhaps kindergarten teachers should run a middle course by having some games without overemphasizing the game period. Since five-year-olds have little understanding of "your side," "my side," and competition loosely organized games like the circle type seem best suited to them. As the group matures through the year (or it they are already more mature), additional more highly organized games may be introduced. More group games may be played in situations where playground space and equipment is limited than in programs that can provide ample space and equipment

Motor skills

- Large muscle coordination
 - Exercises and games involving walking, jumping, running, skipping and climbing
- Sensory and motor coordination
 - Imaginative play on jungle gyni, slides, trapeze bars, etc
- Bouncing, catching, throwing ball by himself or cooperatively
 - Lasy relays
- Rhythmie activities
 - Singing games
 - Running, skipping, walking, sliding, hopping, etc., to music

Safety at play

- Taking turns without pushing etc
- Using equipment properly

Mental health

- Developing good sportsmanship and citizenship.
- Following rules willingly
- Practicing both leadership and followership
- Demonstrating willingness to try new things.
- Appreciating achievements of himself and others

9 ART EDUCATION

I we-year-olds are explorers, the creative art experiences of kindergaiten children should be exploratory in nature. The process is more important than the product at this age

Eve-year-olds have strong desires and real needs to satisfy their sensory urges. They need to be able to touch, feel, look, listen, stamp and jump, and to whisper and shout. All of these actions are attempts to become a part of the environment. Because kindergarten children have insatiable currosity, teachers must provide unlimited opportunities for exploration and examination of different material without overeniphasizing the finished product or asking "what is it?"

Teaching strategies. The teacher will recognize the sequence of growth in art expression while working with children. Manipulation gives way to basic symbols, later these symbols become more highly differentiated and increasingly comprehensible to the viewer. At no time in kindergarten, however, does the child's work normally resemble that of an adult. Because development cannot be successfully hurried, an adult should not substitute other forms or symbols for those created by the children Children at this age don't really want help, they want the privilege of exploring with materials and seeing what the material will do

A teacher must understand the stages of development in art expression. She must be able to interpret with considerable sensitivity and insight the various forms of



expression that children adopt, and should be able to appreciate the aesthetic qualities that appear in all children's work. The physical setting and choice of materials for art activities should be carefully planned. The teacher's challenge is to find the necessary delicate balance between assuming leadership and allowing the children to develop their own abilities, express their own ideas in their own ways, and choose their own media.

The art center. Children need to know how to use a new tool how to hold a paint brush or seissors. With this knowledge and a little practice, children can then select project materials from the art center. The art center should be changed as frequently as the children's interests change—but not so rapidly that they feel hurried in the use of materials. Convenient work areas and readily accessible tools and materials are as important in the art center as in other work centers of the kindergarten.

Subject matter. Children select subjects to paint and choose materials that interest them and are in their experience. Some children are motivated by a good story or poem effectively read by the teacher. Dictatorial methods of motivation, restricting children's thinking and the art forms they may use, retard their normal development. The teacher should always remember that dominating children's ideas, working habits or designs will destroy the educational values inherent in the art education program.

Work areas: Work areas with adequate tables, easels, and clean-up facilities are essential for creative art experiences. The tables should have smooth washable tops and be of a comfortable work height. The easels can be permanently installed or movable. They should be a convenient height and have a washable finish. A suitable floor covering under the easels and a classroom sink can make clean-up much easier. Sponges may be cut to fit five-year-old hands encouraging them to be independent in cleaning up. Either plastic aprons or work aprons of some other material help keep the children's clothes clean and make for freer use of creative art materials.

The learning activities that will provide for the attainment of the following art education objectives require exploration, manipulation and some freedom

- Increase children's awareness of their world
- Prime the child's potential creativity and curiosity
- Increase visual awareness through use of the senses feeling, touching, looking, etc
- Encourage self-expression of feelings and ideas in visual language
- Acquaint the child with various materials
- Develop independence and different ways of working with materials
- Encourage the expression aesthetic feelings about experience
- Teach habits of neatness and good housekeeping
- Develop the ability to listen to and follow directions
- Develop the skills needed in art work

Art skills

- Differentiate between colors
- Properly hold and use scissors, paint brush,

- crayons, chalk, pencils, etc
- Choose appropriate materials to meet various art situations
 - Clay and modeling compounds
 - Paper
 - Paints tempera, watercolor and finger paints
 - Wood and tools
 - Cloth
 - String and yarn
 - Paste—one finger activity
 - Glue just enough
- Develop independence in finding and using unusual art media
 - Bottles
 - Paper bags
 - Newspapers
 - Sticks
 - Aluminum foil
 - Paper towel rolls
- Learn to respect the rights of others and their work
- Appreciate the process as well as the finished product.

10. MUSIC EDUCATION

The kindergarten child should experience singing, listening and moving to music every day. Children will learn concepts of rhythm and melody best through activities that involve bodily movement such as clapping, using rhythm instruments, and experimenting with sounds and singing Major goals of kindergarten music programs are to provide children with (1) freedom to enjoy and experience music, and (2) repeated exposure to a variety of music media.

Singing: In kindergarten, singing should be spontaneous and free and will ideally go with children as they leave the classroom. The teacher who is enthusiastic, enjoys singing, knows the songs well, and who uses appealing, worthwhile and appropriate materials will achieve good results with children. Five-year-old children can leain a wide variety of songs, including folk songs, action songs, nursery rhymes, child-composed songs, nonsense songs, seasonal music, work songs, lullabies and patriotic songs. In order to insure growth, a planned and balanced singing program should occur daily, with a variety of song material, creative rhythmic experience, appreciation and participation in song games and dances.

Children learn to sing by singing Kindergarten teachers have found the following steps effective in teaching a song.

- Singing the song as a whole
- Inviting children to join in the song as soon as possible
- Encouraging children to sing easy or repeated phrases
- Devoting several days to learning a song.

The teacher can introduce a number of songs concurrently. The interest of children in music is so great that they can become familiar with several new songs each week

Few kindergarten children are self-conscious about their voices or are aware that they are not singing correctly



Consequently, pointing out a child whose singing is inaccurate may destroy his or her progress and self-confidence. Many children have not yet learned to sing accurately, this does not indicate that they are unmusical, however, only inexperienced or insecure. The best possible activity to help simprove singing is actually singing freely and joyously

A variety of accompaniment is desirable. The teacher may use autoharps for folk songs, wood blocks and tone blocks for clock songs, and black keys at the piano for oriental songs. Many songs will be sung without accompaniment. An overuse of piano accompaniment will discourage independent singing. Occasionally, recordings or an accompanist may be used in teaching songs.

Movement: Along with other forms of expression in language and art, rhythmic movement or dance gives great joy. It begins whenever movement takes place walking, skipping, galloping, bouncing on a board, singing a jingly tune, or tapping and whirling for tun. Rhythm is so natural to children that sharing the tun of movement is satisfying to them. It a tune is hummed, a song sung, or a simple instrument played, the rhythm experience is enriched. Rhythm does not necessarily have to be accompanied by music, however.

Rhythm activities begin with an individual and may involve a small group and, finally, a large group after many informal experiences have been enjoyed. Exploration and experimentation afford intellectual and creative development as well as emotional release.

Experimenting with sounds. The life of a kindergarten child is full of sounds from the toar of a jet to the chirp of a cricket. Sounds capture children's interest and stimulate their imagination, especially when listening to music at home and at school. Kindergarten programs should provide music of varied styles, periods and composers enriching musical background and encouraging familiarity with a variety of music.

Listening Quiet listening is a favorite musical activity in the kindergarten and can be planned many times during the day, acquainting children with some of the world's most beautiful music. Piano music can be satisfying for quiet listening. Phonograph records provide resources for broad, rich and varied listening experiences.

Children enjoy concerts heard in the classroom, school auditorium, concert hall, and on radio and television. Performances by other children are of particular interest. Any planned concert for children should consider their interests in the choice of music, the length of the composition and the length of the entire program.

Creating A child makes noises with hands tongue and teet. Using all kinds of sound-makers increases children's ability to recognize variations in tone quality pitch, duration and rhythm patterns. As children discover that music tones can be produced in many ways, creative expression, and interest in playing instruments may be encouraged.

Instruments are closely allied to the natural rhythmis of children and encourage creative expression. Consequently, teachers should guide children to express their feelings and ideas with instruments rather than beat out preconceived rhythmic patterns. Children especially enjoy experimenting with rhythm instruments. In selecting instruments, major

consideration should be given to quality, tone and durability of materials. Instruments should be purchased individually rather than as a set

As children experiment with instruments, they may begin to combine a few of them in simple, original arrangements accompanied by the teacher at the piano Present trends are decidedly away from the formal rhythm band with its rigid patterns, costumes and child director (delighting in the opportunity to show off for admiring adults). This staging and rigidity does not encourage musical development. The kindergarten teacher should work with children's natural interest and help develop a growing, continuing interest in the various aspects of music education

The kindergarten music program affords the child opportunities to attain the following objectives

- Listen to and enjoy good music
- Experience the pleasure of group singing
- Enjoy and learn how to control one's own singing voice
- Build up a repertoire of songs
- Develop a feeling for, and a sense of rhythm
- Develop motor coordination and grace
- Cultivate the ability to pay careful attention
- Express creative ideas and moods through bodily movements
- Develop social habits and cooperation necessary for group appreciation of music
- Develop ease in performing before a group

Music skills

- Control and use of singing voice
- Ability to follow short melody accurately
- Recognition of like, different and similar phrases
- Ability to show, with the hand or body, up or down direction of melody
- Recognition of the mood of a song
- Appropriate rhythmic responses to music, i.e., hopping, skipping, marching, running, walking, galloping, gliding, sliding
- Ability to imitate rhythmic patterns by clapping and by using rhythm instruments
- Ability to interpret music creatively in dance, painting, etc
- Ability to recognize the rhythm instruments used in kindergarten
- Good listening habits

11 SCIENCE EDUCATION

Preschool science. The preschool child engages in problem solving activities quite naturally while trying to understand the "how" and "what" of the environment Each kindergarten child has already developed a great number of science-related concepts representing diverse experiences in observation, interpretation, organization evaluation, experimentation, analysis, and in making hypotheses, generalizations and comparisons about phenomena in his environment. All children have common understandings of day and night, growth, hot and cold, energy,



heat, friction, mertia, plants and animals, weather sound, electricity, and man's accomplishments in space, these concepts form a foundation for extending science knowledge in the classroom

The teacher does not know, however, what specific ideas the individual child has gained from these experiences or how much awareness has been developed of the cause and effect relationships operating in the environment. The teacher can be sure that some of the concepts the child brings to kindergarten are vague, incomplete and, in some instances, erroneous.

Kindergarten science programs. The kindergarten teacher should help the children extend, retirie, and add to the concepts they possess when they enter kindergarten Science activities should be planned that enable children to relate present to past learning experiences, broadening their trame of reference and science vocabulary. Unless class learning is clearly connected to what the child already knows, the continuity of learning will not be recognized.

Teaching strategy. In planning science experiences for kindergarten children, the teacher should use techniques that (1) capitalize on teachable moments. (2) use community resources effectively, and (3)/provide stimulating and appropriate activities with ample opportunity for children to question, explore, and experiment

Questions posed by the child and those asked by the teacher are equally important. The child's questions reveal areas of interest, past experience, and concept development, they also provide the "teachable moments" for the teacher. The teacher's questions can direct the child's observations and, at the same time, develop greater perceptual awareness. Being told about science does little to increase perceptual awareness, the teacher's questions, however, can point out what to look for in particular situations, gradually showing the learner how to observe For example, ask the child to tell what he knows about environmental change in the weather (night and day, the seasons, plants and animals, etc.), help to organize this information into a meaningful pattern, adding a dimension to the child's awareness of change. New discoveries may be that (1) change is thythmic and orderly, (2) change can be explained in terms of cause and effect relationships, and (3) change is a universal phenomenon

Science curriculum: It is important to plan for two aspects in the science curriculum. (1) the aspect concerned with observation and the description ("what happens"), and (2) the aspect concerned with explanation and interpretation ("where does it happen"). Teachers are cautioned to remember not to move too soon from simple observations into explanations and interpretations.

The child should be involved in a science problem that he or she has identified and chosen as interesting. The teacher should help the child recognize the connection between past and present experiences and provide guidance in making generalizations that will add to concept development in the future.

Science objectives

- Acquaint the child with the world around him
- Help each child establish a personal relationship with this world

12 MATHEMATICS

Kindergarten children should be provided with many experiences, to strengthen and extend their understanding of mathematics and develop their ability to reason

Mathematics programs in kindergarten' should be planned to develop skills in sequence. An essential part of this program is, of course, the many number activities which naturally occur as young children participate in study activities, classroom routines and play time games or rhythmic experiences. The introduction of various mathematical concepts through tactile experiences with many different concrete objects enhances the child's competence with numbers.

Another important phase of the math program is the guidance provided to large groups, small groups and individuals according to their needs, interests and abilities. The teacher should select and adapt math activities to meet the basic needs of each particular group and individual.

Incidental teaching: Numerous spontaneous opportunities arise each day to give kindergarten pupils number experiences, these incidents are necessary and recur throughout the grades, demanding ever growing insight However, incidental experiences are not necessarily concrete and within the understanding of the child. Rhymes, games and counting activities are fun and help the learner become friendly with numbers. Many materials and activities used throughout the day lend themselves to numerical activities that are fun and educational for the child

Planned teaching: Mathematics activities should give kindergarten children a variety of number experiences. The more ways that an idea is planned and experienced, the clearer it becomes Teachers can build word meanings in number terms, use number situations from home and school activities, use play activities to teach numbers, and arrange opportunities to acquire number ideas by discovery. It number experiences are relevant to each child's readiness, greater independence and enjoyment in learning will be acquired.

Because mathematics involves a continual process of reasoning and discovery, increasing children's participation in activities that develop mathematical understanding is very basic to any mathematics program. Manipulation of concrete materials is a major consideration in this type of learning.

Mathematics educators generally agree that kindergarten programs should not require written work. Mathematical experiences, like any others, are most successful when they are interesting and motivational, allow for individual differences, and provide for the experience of success.

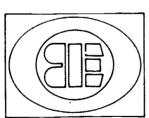
Mathematics competencies

- Count objects orally in a set of 10 or less
- Tell how many objects are in a set of 10 or less
- Recognize and name the number symbols 0-10
- Write the number of objects in a set of 10 or less
- Draw a picture or select objects that correspond to a given numeral of 10 or less
- Match, by numerical correspondence, separate sets of 10 or less objects



- Tell which is greater, less, or the same when comparing object sets of 10 or less.
- Supply the missing numeral in a sequence of 0-10.
- Group shapes that are similar
- Fell home phone number and address
- Perform simple measurements (lengths in any convenient unit, and weights by balancing to determine heaviest, etc.)





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